



**Dual Common Cathode Low VF Schottky**

**Reverse Voltage: 150V**  
**Forward Current: 20 Amp**

**Features**

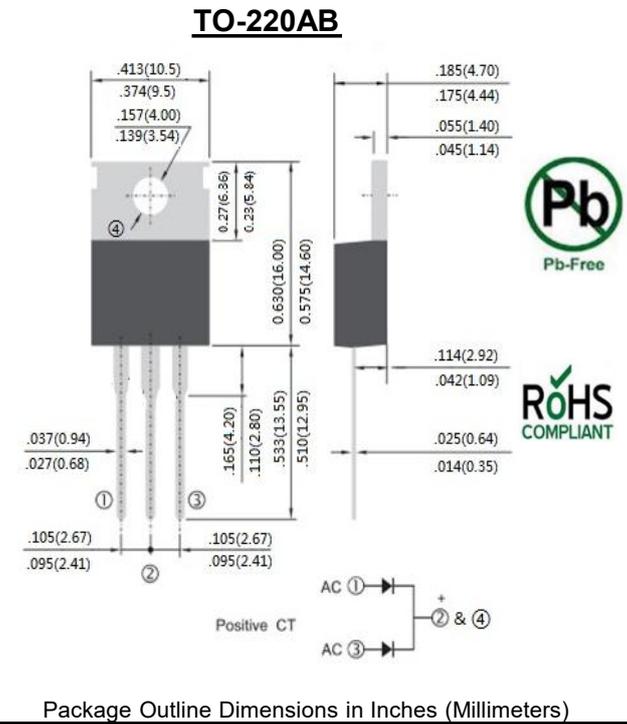
- Low power loss, high efficiency
- Guardring for overvoltage protection
- High forward surge capability
- Halogen-free according to IEC 61249-2-21 definition
- Compliant to RoHS Directive 2011/65/EU

**Mechanical Data**

- **Package:** TO-220AB  
Molding compound meets UL 94 V-0 flammability rating
- **Terminals:** Matte tin plated leads, solderable per JESD22-B102
- **Polarity:** As marked

**Typical Applications**

- Switching mode power supply (SMPS)
- Adapters
- DC to DC converters



**Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter&Test Conditions		SYM.	MBR20L150CT	Unit
Device marking code			MBR20L150CT	
Maximum Recurrent Peak Reverse Voltage		VRRM	150	V
Maximum RMS Voltage		VRMS	105	V
Maximum DC Blocking Voltage		VDC	150	V
Average rectified output current @60Hz sine wave, Resistance load(FIG.1)	Per Diode	I <sub>O(AV)</sub>	10.0	A
	Per Device		20.0	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load		IFSM	150	A
Maximum Thermal Resistance, Junction To Ambient		R <sub>θJA</sub>	60	°C/W
Operating junction range		T <sub>J</sub>	-55 ~ +150	°C
Storage temperature range		T <sub>STG</sub>	-55 ~ +150	°C

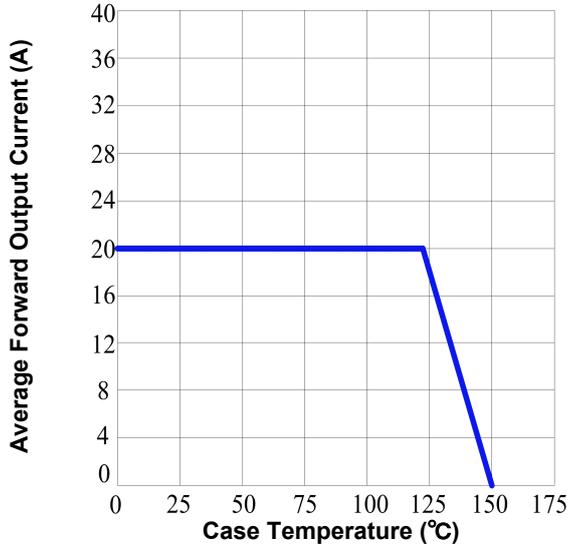
**Electrical Characteristics** (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions		SYM.	MBR20L150CT	Unit
Maximum Instantaneous Forward Voltage per diode(Note1)	IF=10A, T <sub>J</sub> =25°C	V <sub>FM</sub>	0.85	V
	IF=10A, T <sub>J</sub> =125°C		0.73	
Maximum DC reverse current at rated DC blocking voltage per diode	TA = 25°C	I <sub>R</sub>	0.01	mA
	TA = 125°C		10	

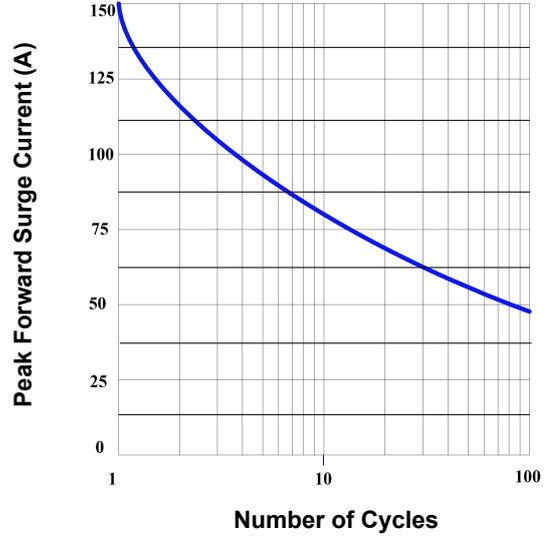
- Notes:
1. Pulse test with PW=300μs, 2% duty cycle.
  2. The typical data above is for reference only.

**Rating and Characteristic Curves**

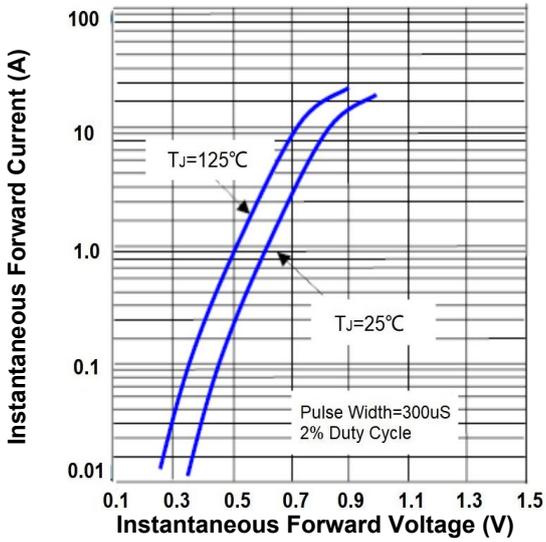
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED**



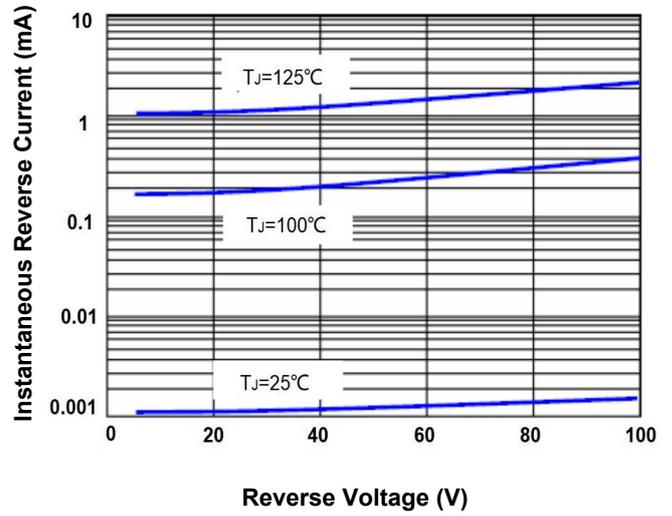
**FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG. 3- TYPICAL FORWARD VOLTAGE**



**FIG. 4- TYPICAL REVERSE LEAKAGE**



The curve above is for reference only.



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